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☐　**3. HACKER: human and computer knowledge discovered event rules for telecommunications fault management**
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Mon-Fong Jiang; Shian-Shyong Tseng; Shan-Yi Liao;
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   Digital Object Identifier 10.1109/DASFAA.2001.916373

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10. **User-interested-keywords set discovery using rough sets for intelligent ii
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    Xiaomin Ying; Ming Liu; Wenhua Dou;
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11. **A graph pattern matching approach to software architecture recovery**
    Sartipi, K.; Kontogiannis, K.;
    Software Maintenance, 2001. Proceedings. IEEE International Conference on
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    Yang Bo; Liu Fei; Sun Yiqi;
    Intelligent Control and Automation, 2000. Proceedings of the 3rd World Congr

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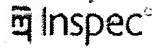
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Lyding, J.W.;
Proceedings of the IEEE
Volume 85, Issue 4, April 1997 Page(s):589 - 600
Digital Object Identifier 10.1109/5.573743

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☐    2. **The blueprint for life?**
Feitelson, G.; Treinin, M.;
Computer
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Digital Object Identifier 10.1109/MC.2002.1016899

AbstractPlus | References | Full Text: PDF(371 KB)   IEEE JNL
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☐    3. **Metadata model, resource discovery, and querying on large scale multidi datasets. The GEREQ project**
Andres, F.; Noureddine, M.; Ono, K.; Zhang, A.;
Digital Libraries: Research and Practice, 2000 Kyoto, International Conference
13-16 Nov. 2000 Page(s):312 - 319
Digital Object Identifier 10.1109/DLRP.2000.942189

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☐    1. **Finalizing the reason of the inconsistency of fuzzy inference templates b;**
**triangular fuzzy relational compositions: a generic case**
Hallam, N.; Chek Ling Ngo, D.; Benyamina, J.;
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on
Volume 1,  12-17 May 2002 Page(s):110 - 115
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☐    2. **Parallel associative search by use of a volume holographic memory**
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Applied Imagery Pattern Recognition Workshop, 2000. Proceedings. 29th
16-18 Oct. 2000 Page(s):78 - 83
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☐ **1. Data mining library reuse patterns using generalized association rules**
Michail, A.;
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☐ **2. Data mining library reuse patterns in user-selected applications**
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12-15 Oct. 1999 Page(s):24 - 33
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☐ **3. A framework for dynamic evidence based medicine using data mining**
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☐ **4. An efficient approach to discovering knowledge from large databases**
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**22. Pattern discovery by residual analysis and recursive partitioning**
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**23. Automated discovery of positive and negative knowledge in clinical datal**
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**24. Classification of sleep stages in infants: a neuro fuzzy approach**
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**25. Discovery of probabilistic rules for prediction**
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6-10 March 1989 Page(s):223 - 229
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**1    Data mining assists in a relational database management system**

Inventor: MILLER TIMOTHY EDWARD (US); TATE BRIAN     Applicant: NCR CORP (US)
DON (US); (+3)

EC:                                                 IPC: *G06F17/00; G06N5/02*; G06F17/00 (+1)

Publication info: **US7162464** - 2007-01-09

**2    System and method for multidimensional extension of database
     information using inferred groupings**

Inventor: LANCASTER BRIAN J (US); YARBROUGH     Applicant: CERNER INNOVATION INC (US)
MICHAEL E (US); (+3)

EC:                                                 IPC: *G05B13/02*; G05B13/02

Publication info: **US2007005154** - 2007-01-04

**3    Method and apparatus for providing an expression data mining
     database**

Inventor: BALABAN DAVID J (US); KHURGIN ELINA     Applicant: AFFYMETRIX INC (US)
(US)

EC:                                                 IPC: *G06F17/30*; G06F17/30

Publication info: **US2006271513** - 2006-11-30

**4    System, service, and method for characterizing a business intelligence
     workload for sizing a new database system hardware configuration**

Inventor: WASSERMAN THEODORE J (US); RIZVI     Applicant:
HAIDER (CA); (+2)

EC:                                                 IPC: *G06F7/00*; G06F7/00

Publication info: **US2006253471** - 2006-11-09

**5    METHOD FOR CONSTRUCTING DATABASE OF WEB GIS BASED GPS,
     AND SERVICE APPLICATION METHOD FOR THE SAME**

Inventor: KIM YEONG JEONG (KR)                   Applicant: KAINOS (KR)

EC:                                                 IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30

Publication info: **KR20030045362** - 2003-06-11

**6    Automatic design method of physical database based on SQL load
     mining**

Inventor: HU TIANLEI (CN)                          Applicant: BEIJING SHENZHOU ASTRONAUTIC S (CN)

EC:                                                 IPC: *G06F17/30*; G06F17/30

Publication info: **CN1825307** - 2006-08-30

**7    Database mining system and method for coverage analysis of
     functional verification of integrated circuit designs**

Inventor: HEKMATPOUR AMIR (US)                    Applicant: IBM (US)

EC: G01R31/3183F1; G06F17/50C3                     IPC: *G01R31/28; C07D487/22; G11B7/248* (+3)

Publication info: **US2006107141** - 2006-05-18

**8    BROWSER BASED DATABASE ACCESS AND ADMINISTRATION
     METHOD FOR VIRTUAL DATABASES AND VIRTUAL COMMUNITIES**

Inventor: FERIA CRISTINA Y (CA); CECILIO ANALIZA     Applicant: FERIA CRISTINA Y (CA); CECILIO ANALIZA
(CA); (+1)                                          (CA); (+1)

EC:                                                 IPC: *G06F17/30; H04L12/16*; G06F17/30 (+1)

Publication info: **CA2475127** - 2006-02-02

**9    DYNAMIC GRAPHICAL DATABASE QUERY AND DATA MINING
     INTERFACE**

Inventor: DJUGASH JUDY IMMACULATE TINA (US);     Applicant: IBM (US); IBM UK (GB); (+2)
TRAN HOA THU (US)

**10**   **Method and system for database migration and association**

Inventor: WYZGA WOJCIECH J (US); OLIVER WILLIAM J Applicant:
(US); (+1)

**RESULT LIST**
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**11** **Method and apparatus for providing an expression data mining database**
Inventor: BALABAN DAVID J (US); KHURGIN ELINA (US)
Applicant: AFFYMETRIX INC (US)
EC: G06F17/30A2; G06F19/00C9
IPC: *G06F17/30; G06F19/00*; G06F17/30 (+2)
Publication info: US2004199544 - 2004-10-07

**12** **Methods and products for merging codes and notes into an integrated relational database**
Inventor: WAKEFIELD TODD D (US); BEAN DAVID L (US)
Applicant: ATTENSITY CORP (US)
EC: G06F17/30B; G06F17/30S; (+1)
IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F7/00
Publication info: US2004215634 - 2004-10-28

**13** **Self tuning database retrieval optimization using regression functions**
Inventor: KELLER MARTIN (DE); ZUZARTE CALISTO P (CA)
Applicant: IBM (US)
EC: G06F17/30H6
IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30
Publication info: US2004128287 - 2004-07-01

**14** **System and method for multi-dimensional extension of database information**
Inventor: PARKINS KENT D (US); LANCASTER BRIAN J (US); (+2)
Applicant:
EC:
IPC: (IPC1-7): G06F17/60
Publication info: US2005060191 - 2005-03-17

**15** **In-database clustering**
Inventor: CAMPOS MARCOS M (US); MILENOVA BORIANA L (US); (+1)
Applicant:
EC: G06F17/30S1C
IPC: *G06F7/00*; G06F7/00; (IPC1-7): G06F7/00
Publication info: US2003212692 - 2003-11-13

**16** **AUGMENTING DATA IN A DATABASE FOR PREDICTIVE MODELING**
Inventor: DILLON CRAIG; HOWE RICHARD; (+5)
Applicant: FAIR ISAAC AND COMPANY INC (US)
EC: G06F17/30T; G06F17/30W1
IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30
Publication info: WO03058504 - 2003-07-17

**17** **Event-based database access execution**
Inventor: BHIDE MANISH ANAND (IN); MOHANIA MUKESH KUMAR (IN)
Applicant:
EC:
IPC: *G06F7/00*; G06F7/00; (IPC1-7): G06F7/00
Publication info: US2004117371 - 2004-06-17

**18** **A STRUCTURED DATABASE FOR DATA MINING RESULTS AND METHODS FOR CAPTURING, RETAINING AND ENHANCING KNOWLEDGE DISCOVERY**
Inventor: ANWAR MOHAMMED SHAHBAZ (US); DAHALE VENKATESH (US); (+1)
Applicant: POLYVISTA INC (US); ANWAR MOHAMMED SHAHBAZ (US); (+2)
EC: G06F17/30B
IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30
Publication info: WO03023654 - 2003-03-20

**19** **Protein antigen epitop prediction method in which potential epitops are predicted with a conventional algorithm and then potential epitops are compared with a molecular biology database of related data using data mining techniques**
Inventor: SCHOENEMANN MICHAEL (AT)
Applicant: METALIFE AG (DE)

**20   Efficient incremental method for data mining of a database**
Inventor: LEE CHANG-HUANG (TW); CHEN MING-SYAN   Applicant:
(TW)

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REVISED VERSION

(51) International Patent Classification[7]: G06F 17/30

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(74) Agent: STROZIER, Robert, W.; Strozier, Robert, W, PLLC., P.O. Box 429, Bellaire, TX 77402-0429 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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WO 03/023654 A2

(54) Title: A STRUCTURED DATABASE FOR DATA MINING RESULTS AND METHODS FOR CAPTURING, RETAINING AND ENHANCING KNOWLEDGE DISCOVERY

(57) Abstract:

# PATENT COOPERATION TREATY

# PCT

## DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rules 13ter.1(c) and Rule 39)

| Applicant's or agent's file reference<br><br>95626/14PCT | IMPORTANT DECLARATION | Date of mailing *(day/month/year)*<br>27/03/2003 |
|---|---|---|
| International application No.<br>PCT/US 02/ 28277 | International filing date *(day/month/year)*<br>06/09/2002 | (Earliest) Priority date *(day/month/year)*<br>06/09/2001 |

| International Patent Classification (IPC) or both national classification and IPC        G06F17/30 |
|---|

| Applicant<br>POLYVISTA, INC. |
|---|

This International Searching Authority hereby declares, according to Article 17(2)(a), that **no international search report will be established** on the international application for the reasons indicated below

1. ☐ The subject matter of the international application relates to:

   a.   ☐ scientific theories.

   b.   ☐ mathematical theories

   c.   ☐ plant varieties.

   d.   ☐ animal varieties.

   e.   ☐ essentially biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.

   f.   ☐ schemes, rules or methods of doing business.

   g.   ☐ schemes, rules or methods of performing purely mental acts.

   h.   ☐ schemes, rules or methods of playing games.

   i.   ☐ methods for treatment of the human body by surgery or therapy.

   j.   ☐ methods for treatment of the animal body by surgery or therapy.

   k.   ☐ diagnostic methods practised on the human or animal body.

   l.   ☐ mere presentations of information.

   m.   ☐ computer programs for which this International Searching Authority is not equipped to search prior art.

2. ☒ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

      ☐ the description     ☒ the claims     ☐ the drawings

3. ☐ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

      ☐ the written form has not been furnished or does not comply with the standard.

      ☐ the computer readable form has not been furnished or does not comply with the standard.

4. Further comments:

| Name and mailing address of the International Searching Authority<br><br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL-2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016 | Authorized officer<br><br>Marja Brouwers |
|---|---|

Form PCT/ISA/203 (July 1998)

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 203**

All present claims relate to an extremely large number of possible apparatus or methods. In fact, the claims contain so many options and variables that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, no search report can be established for the present application.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

**RESULT LIST**
**57** results found in the Worldwide database for:
**database** in the title AND **mining** in the title or abstract
(Results are sorted by date of upload in database)

**31** A SYSTEM AND METHOD FOR MINING DATA FROM A DATABASE
USING RELEVANCE NETWORKS

Inventor: BUTTE ATUL JANARDHAN; KOHANE ISAAC S   Applicant: CHILDRENS MEDICAL CENTER (US)

EC: G06F17/30S1E; G06F17/30A2   IPC: *G06F17/30; G06F19/00*; G06F17/30 (+2)

Publication info: **WO0116805** - 2001-03-08

**32** System and method for revealing necessary and sufficient conditions
for database analysis

Inventor: MEIDAN ABRAHAM (IL); LEVIN BORIS (IL);   Applicant: WIZSOFT INC (US)
(+2)

EC: G06N5/02K2   IPC: *G06N5/02; G06N5/00*; (IPC1-7): G06F17/00
(+1)

Publication info: **US6542881** - 2003-04-01

**33** CROSS-SELLING IN DATABASE MINING

Inventor: LEE YUCHUN (US); CRITES ROBERT (US)   Applicant: UNICA TECHNOLOGIES INC (US); LEE
YUCHUN (US); (+1)

EC: G06Q10/00B; G06Q30/00A   IPC: *G06Q10/00; G06Q30/00*; G06Q10/00 (+2)

Publication info: **WO0106405** - 2001-01-25

**34** DATABASE ARITHMETIC PROCESSOR

Inventor: TAMURA TAKAYUKI   Applicant: MITSUBISHI ELECTRIC CORP

EC: G06F17/30H6   IPC: *G06F7/00; G06F17/30*; G06F7/00 (+2)

Publication info: **JP2002024281** - 2002-01-25

**35** System, method and computer program product for data mining in a
normalized relational database

Inventor: DURRANT DOUGLAS J (US); ALDRIDGE   Applicant: NCR CORP (US)
BRUCE E (US)

EC: G06F17/30S1R   IPC: *G06F7/00; G06F17/00; G06F17/30* (+6)

Publication info: **US6691120** - 2004-02-10

**36** VERSION TESTING IN DATABASE MINING

Inventor: LEE YUCHUN (US); KENNEDY RUBY (US);   Applicant: UNICA TECHNOLOGIES INC (US); LEE
(+1)   YUCHUN (US); (+2)

EC:   IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30

Publication info: **WO0034898** - 2000-06-15

**37** SYSTEM AND METHOD FOR THE AUTOMATIC CONSTRUCTION OF
GENERALIZATION-SPECIALIZATION HIERARCHY OF TERMS

Inventor: SUNDARESAN NEELAKANTAN (US); YI   Applicant:
JEONGHEE (US)

EC: G06F17/30T   IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F7/00

Publication info: **US2002178136** - 2002-11-28

**38** DATA MINING ASSISTS IN A RELATIONAL DATABASE MANAGEMENT
SYSTEM

Inventor: MILLER TIMOTHY EDWARD (US); TATE BRIAN   Applicant: NCR CORP (US); MILLER TIMOTHY EDWARD
DON (US); (+3)   (US); (+4)

EC: G06F17/30S1; G06F17/30B   IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30

Publication info: **WO0020997** - 2000-04-13

**39** METHOD AND APPARATUS FOR PROVIDING AN EXPRESSION DATA
MINING DATABASE AND LABORATORY INFORMATION
MANAGEMENT

Inventor: BALABAN DAVID J (US); KHURGIN ELINA   Applicant: AFFYMETRIX INC (US); BALABAN DAVID J
(US); (+4)   (US); (+5)

**40   METHOD AND APPARATUS FOR PROVIDING AN EXPRESSION DATA
MINING DATABASE AND LABORATORY INFORMATION
MANAGEMENT**

Inventor: BALABAN DAVID J (US); KHURGIN ELINA
(US); (+4)          Applicant: AFFYMETRIX INC (US)

Data supplied from the *esp@cenet* database - Worldwide

**RESULT LIST**
**1** result found in the Worldwide database for:
**template** in the title AND **data and mining** in the title or abstract
(Results are sorted by date of upload in database)

**1**   INPUT TEMPLATE PREPARATION KNOWLEDGE EXTRACTION
METHOD FROM TEXT DB
Inventor: HISAMITSU TORU; FUJIO MASAKAZU; (+1)    Applicant: HITACHI LTD; HITACHI MEDICAL CORP

EC:                                               IPC: *G06F17/30; G06F17/28*; G06F17/30 (+3)

Publication info: **JP2003296345** - 2003-10-17

Data supplied from the *esp@cenet* database - Worldwide

1    **Pattern discovery in video content using association rules on multiple
     sets of labels**
     Inventor: DIVAKARAN AJAY (US)                    Applicant:

     EC: G06F17/30M5; G06K9/62B1; (+1)                IPC: *G06F17/30; G06K9/62; G06K9/64* (+4)

     Publication info: **US2004086180** - 2004-05-06

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Set    Items    Description
S1    46    S (ANTI()MONOTONICITY OR DOWNWARD()CLOSURE) () (PROPERTY OR PROPERTIES OR ATTRIBUTE? ? )
S2    61302    S DATA()MINING
S3    36    S S1 AND S2
S4    0    S S3 AND TEMPLATE? ?
S5    83387    S DATA(30N)(MINE OR MINING)
S6    0    S S1 AND S5 AND TEMPLATE? ?
S7    147268    S TEMPLATE? ?
S8    16276    S DATA()(WAREHOUSE? ? OR WAREHOUSING OR MART? ?)
S9    0    S S1 AND S8 AND S7
S10    23    S S3 NOT PY>2003
S11    13    RD (unique items)
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[File 8] **Ei Compendex(R)** 1884-2007/Jan W1
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*File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.*

[File 111] **TGG Natl.Newspaper Index(SM)** 1979-2007/Jan 18
(c) 2007 The Gale Group. All rights reserved.

[File 6] **NTIS** 1964-2007/Jan W2
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[File 144] **Pascal** 1973-2007/Jan W1
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[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec
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[File 62] **SPIN(R)** 1975-2007/Dec W4
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[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Dec

[File 95] **TEME-Technology & Management** 1989-2007/Jan W2

[File 56] **Computer and Information Systems Abstracts** 1966-2006/Dec

[File 57] **Electronics & Communications Abstracts** 1966-2006/Dec

[File 60] **ANTE: Abstracts in New Tech & Engineer** 1966-2006/Dec

[File 266] **FEDRIP** 2006/Dec

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13
*File 583: This file is no longer updating as of 12-13-2002.*

[File 438] **Library Lit. & Info. Science** 1984-2007/Dec

[File 256] **TecInfoSource** 82-2007/Aug

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ATTRIBUTE? ? )
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S3    211145  S DATA()(WAREHOUSE? ? OR WAREHOUSING OR MART? ?)
S4        2   S S1 (100N) (S2 OR S3)
; show files

[File 88] **Gale Group Business A.R.T.S.** 1976-2007/Jan 18

[File 369] **New Scientist** 1994-2007/Oct W3

[File 160] **Gale Group PROMT(R)** 1972-1989

[File 635] **Business Dateline(R)** 1985-2007/Jan 19

[File 15] **ABI/Inform(R)** 1971-2007/Jan 18

[File 16] **Gale Group PROMT(R)** 1990-2007/Jan 18

[File 9] **Business & Industry(R)** Jul/1994-2007/Jan 18

[File 13] **BAMP** 2007/Dec W5

[File 810] **Business Wire** 1986-1999/Feb 28

[File 610] **Business Wire** 1999-2007/Jan 19
*File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 647] **CMP Computer Fulltext** 1988-2007/Mar W3

[File 98] **General Sci Abs** 1984-2007/Jan

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jan 11

[File 634] **San Jose Mercury** Jun 1985-2007/Jan 18

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jan 18

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Jan 11

[File 75] **TGG Management Contents(R)** 86-2007/Jan W1

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Jan 18

[File 624] **McGraw-Hill Publications** 1985-2007/Jan 19
*File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 484] **Periodical Abs Plustext** 1986-2007/Jan W2

[File 613] **PR Newswire** 1999-2007/Jan 19
*File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 813] **PR Newswire** 1987-1999/Apr 30

[File 141] **Readers Guide** 1983-2007/Nov

[File 239] **Mathsci** 1940-2007/Feb

[File 370] **Science** 1996-1999/Jul W3
*File 370: This file is closed (no updates). Use File 47 for more current information.*

[File 696] **DIALOG Telecom. Newsletters** 1995-2007/Jan 18

[File 553] **Wilson Bus. Abs.** 1982-2007/Jan

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Jan 10

[File 674] **Computer News Fulltext** 1989-2006/Sep W1
*File 674: File 674 is closed (no longer updates).*

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ATTRIBUTE? ? )
S3           1     S (ANTI()MONOTONICITY OR DOWNWARD()CLOSURE) (5N) (PROPERTY OR PROPERTIES
OR ATTRIBUTE? ? )
S4           0     S S3 NOT S2
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[File 348] **EUROPEAN PATENTS** 1978-2006/ 200703

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[File 349] **PCT FULLTEXT** 1979-2007/UB=20070118UT=20070111

*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 350] **Derwent WPIX** 1963-2006/UD=200704

*File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit http://www.dialog.com/dwpi/.*

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S1          0     S (ANTI()MONOTONICITY OR DOWNWARD()CLOSURE) () (PROPERTY OR PROPERTIES OR
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[File 347] **JAPIO** Dec 1976-2006/Sep(Updated 061230)